



Docket No. VTN-0572

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants : Denwood F. Ross III et al.  
Serial No. : 10/051,992 Art Unit: 2878  
Filed : January 17, 2002 Examiner: Israel, Andrew  
For : Missing Lens Detection System and Method

I hereby certify that this correspondence is being deposited with the  
United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant  
Commissioner for Patents, Washington, DC 20231 on

September 11, 2002

(Date)

Sheila Cole

**Name of applicant, assignee, or Registered Representative**

*Sheila Cole*  
(Signature)

September 11, 2002

(Date of Signature)

Assistant Commissioner for Patents  
Washington, D.C. 20231

**DECLARATION UNDER 37 C.F.R. § 1.131**

Dear Sir:

1. This declaration is submitted to establish completion and reduction to practice of the invention in the above-identified application in the United States at a date prior to September 11, 1998, that is the filing date of U.S. Patent Application Serial No. 07/151,560 that issued September 26, 2000 as U.S. Patent No. 6,124,594.

2. I, Timothy P. Newton, am an inventor jointly with Denwood F. Ross, of the invention described and claimed in the above-identified application.

3. I am presently and was, at and before the completion of the invention, in the employ of the Assignee.

4. I understand that the claims of the present invention have been rejected in view of the U.S. Patent No. 6,124,594.

5. Appended hereto as Exhibit A is a true copy of the Invention Disclosure that was used to prepare the above-identified application. This Invention Disclosure, which was prepared and submitted to the Assignee, also shows that the invention of the present invention was made prior to September 1998.

6. All dates that have been redacted in the Appendix are before September 1998.

7. I, Timothy P. Newton, further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further declare that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 35 USC §1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or patent issuing thereon.

By: Timothy P. Newton  
Timothy P. Newton

Country of Citizenship: USA

Address: 5083 Lincolnshire Rd. Jacksonville FL, 32217

Date: 9/09/2002

Att.

Appendix A: Invention Disclosure

Invention Disclosure  
Proprietary

1. Title: Missing Lens Detection Apparatus

2. Inventor(s) Name	Address	Phone #
<u>Denwood Ross</u>	<u>6029 C.R. 20<sup>th</sup> South, Green Cove Springs, FL 32043</u>	<u>(904) 284-4327</u>
<u>Tim Newton</u>	<u>7622 Sunwood Drive, Jacksonville, FL 32256</u>	<u>(904) 262-5148</u>

3. Docket No:  
(From Technology Coordinator)

4. Transmittal Date:

5. Abstract (50 words or less: What problem it solves, how it solves it, advantage.)  
Detection of the condition where a lens is not in a package prior to heat sealing is accomplished by using spectral absorption, either in the UV, Visible, or IR region. This approach is inherently less costly than the vision system approach.

6. Questions: Has this invention been ...

- a) Tried experimentally or to be tried? Yes When?
- b) Put into routine use or to be put into use? Maybe When?
- c) Described in a publication or to be published? No When?
- d) Offered for sale (even if not accepted) or to be offered? No When?
- e) Divulged to anyone outside J&J or to be divulged? No
- To whom? Affiliation:
- When? How?
- In confidence?

7. What is the closest related art of which you are already aware?

8. Where is the location of first description of your invention (e.g., laboratory notebook)? Lab Notebook #1260, p. 57

9. When was this invention conceived (earliest documented point at which you had an idea of what you wanted to accomplish and a way of accomplishing it)?

10. Inventor's signature Date Home address

<u>Denwood Ross</u>	_____	_____
<u>Tim Newton</u>	_____	_____
_____	_____	_____

**Description of Invention:**

Detection of a lens in a package is currently accomplished by back illuminating the package with diffuse light and observing with a camera-based vision system. This approach works well but is expensive and software intensive. This invention involves using spectral absorption of the lens to determine presence or absence. Specifically, the package is illuminated from top or bottom with a black body type source and the light transmitted through or reflected from the package and lens is filtered for the wavelength of interest and measured with a simple detector. The best region is the 2.5-3 $\mu$ m water absorption band which the water in the lens will absorb, as opposed to the non-hydroscopic package. In that case, the presence of a lens lowers the signal received by the detector over the 2.5-3 $\mu$ m band. It is also possible to detect preferential absorption in the UV region from both the UV photo initiator, and any UV blocker present, or the visible region from any tint present.

Inventors' signature(s)	Date	Witness's signature	Date
			
			